

## Material Safety Data Sheet:

## BLUE INDICATING SILICA GEL

### 1 - PRODUCT IDENTIFICATION

**PRODUCT NAME:** SILICA GEL, INDICATING, ADCOA Grades 41, 42, 46 AND 48

**FORMULA:**  $\text{SiO}_2 \times \text{H}_2\text{O} + \text{CoCl}_2$

**PACKAGING:** DRUMS, BAGS OR CANS

**INFO PHONE #** 410 969 3390

**EFFECTIVE:** March 4, 2008 **REVISION #** 7

### 2 - INGREDIENTS

COMPONENT	%	CAS NO.	OSHA	NIOSH (RTECS)
Amorhous silicon dioxide	98 - 100	62231-67-4	0.8 mg / m <sup>3</sup> Total Dust	VV7322000
COBALT CHLORIDE	0.1 - 2.0	7646-79-9	0.1 MG CO/CUM	GF9800000

### 3 - PHYSICAL DATA

**BOILING POINT:** N/A

**VAPOR PRESSURE(MM HG):** N/A

**MELTING POINT:** N/A

**VAPOR DENSITY(AIR=1):** N/A

**SPECIFIC GRAVITY:** N/A  
(H<sub>2</sub>O=1)

**EVAPORATION RATE:** N/A  
(BUTYL ACETATE=1)

**SOLUBILITY (H<sub>2</sub>O):** NEGLIGIBLE (LESS THAN 0.1 %) **% VOLATILES BY VOLUME:** N/A

**APPEARANCE & ODOR:** ODORLESS, BLUE SPHERES ( BEADS) OR GRANULES.

### 4 - FIRE AND EXPLOSION HAZARD DATA

**FLASH POINT (CLOSED CUP)** N/A **FLAMMABLE LIMITS:** UPPER - N/A % LOWER - N/A %

**FIRE EXTINGUISHING MEDIA -** USE EXTINGUISHING MEDIA APPROPRIATE FOR SURROUNDING FIRE.

### SPECIAL FIRE-FIGHTING PROCEDURES

FIREFIGHTERS SHOULD WEAR PROPER PROTECTIVE EQUIPMENT AND SELF-CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE OPERATED IN POSITIVE PRESSURE MODE.

### 5 - HEALTH HAZARD DATA

**LD50-LC50 Mixture:** ORAL LD50 RAT(ESTIMATED) >31,600 MG/KG

**Route Of Entry - Inhalation:** YES

**Route Of Entry - Skin:** NO

**Route Of Entry - Ingestion:** NO

**Health Haz Acute And Chronic:** COBALT CHLORIDE IS GENERALLY RECOGNIZED AS SAFE AS A TRACE MINERAL ADDED TO ANIMAL FEED. SILICA GEL IS A SYNTHETIC AMORPHOUS SILICA NOT TO BE CONFUSED W/CRYSTALLINE SILICA. EPIDEMIOLOGICAL STUDIES INDICATE A LOW POTENTIAL FOR HEALTH EFFECTS. IT IS CONSIDERED A NUISANCE DUST & ACTS AS A DESICCANT TO HUMAN TISSUE. COBALT CHLORIDE IS GENERALLY RECOGNIZED AS SAFE AS A TRACE MINERAL ADDED TO ANIMAL FEED.

**Carcinogenicity - NTP:** NO **Carcinogenicity - IARC:** NO **Carcinogenicity - OSHA:** NO

**Explanation Carcinogenicity:** THIS PRODUCT AND ITS COMPONENTS ARE NOT LISTED ON THE IARC, NTP OR OSHA CARCINOGENS LISTS.

Signs/Symptoms Of Overexp: DRYING ACTION PF PRODUCT CAN CAUSE IRRITATION OF THE MUCOUS MEMBRANES OF THE NOSE & THROAT & IRRITATION OF THE SKIN. COBALT CHLORIDE CAN CAUSE DERMATITIS AND IRRITATION OF NASAL PASSAGE AND LUNGS.

Med Cond Aggravated By Exp: CHEM SOURCE KNOWS OF NO MEDICAL CONDITIONS ABNORMALLY AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

Emergency/First Aid Proc: IF ANY IRRITATION PERSISTS OR SEVERE, GET MEDICAL ATTENTION. EYE:FLUSH W/WATER FOR 15 MIN. OCCASIONALLY LIFTING LIDS. SKIN:WASH W/SOAP & WATER. INHALED:REMOVE TO FRESH AIR. INGESTED:MATERIAL WILL PASS THROUGH BODY NORMALLY.THRESHOLD LIMIT VALUE (TLV/TWA): 2 MG/M3

## 6 Precautions for Safe Handling and Use

Steps If Material Released/Spill: SWEEP UP OR VACUUM UP.

Neutralizing Agent: NOT APPLICABLE.

Waste Disposal Method: DISPOSE IN AN APPROVED LANDFILL I/A/W FEDERAL, STATE & LOCAL REGULATIONS. COVER PROMPTLY TO AVOID BLOWING OF DUST.

Precautions-Handling/Storing: KEEP TIGHTLY SEALED TO PROTECT QUALITY.

Other Precautions: WHEN POURING INTO A CONTAINER OF FLAMMABLE LIQUID, GROUND BOTH CONTAINERS ELECTRICALLY TO PREVENT A STATIC ELECTRIC SPARK.

## 7 Control Measures

Respiratory Protection: IF DUSTY CONDITION PREVAIL, WEAR A PROPERLY FITTED NIOSH-APPROVED DUST RESPIRATOR.

Ventilation: MFR GAVE NO INFORMATION OF MSDS.

Protective Gloves: CLOSE-WEAVE COTTON GLOVES

Eye Protection: WEAR GOGGLES IF DUSTY

Other Protective Equipment: FOR MANUAL HANDLING:WEAR LONG SLEEVES AND CLOSE-WEAVE GLOVES WITH TIGHT-FITTING WRISTLETS.

Work Hygienic Practices: WASH THOROUGHLY AFTER HANDLING.

Supplemental. Safety & Health Data: NOT KNOWN TO HAVE ANY ADVERSE EFFECTS ON THE AQUATIC ENVIRONMENT. THE SILICA BASE IS INSOLUBLE AND NONTOXIC. COBALT CHLORIDE MAY LEACH AWAY IF CONTACTED WITH WATER.

## 8 Transportation Data

DOT PSN Code: ZZZ

DOT Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION

IMO PSN Code: ZZZ

IMO Proper Shipping Name: NOT REGULATED FOR THIS MODE OF TRANSPORTATION

IATA PSN Code: ZZZ

IATA Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION

AFI PSN Code: ZZZ

AFI Prop. Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION

MMAC Code: NK

N.O.S. Shipping Name: NONE

Additional Trans Data: NONE

The information presented herein is believed to be accurate, but is not warranted. Recipients are advised to confirm in advance that the information is current and applicable to meet their circumstances